

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-8 (Cancelled).

9. (Currently Amended) A sintered body produced by preparing a metal powder mixture, lubricating a die with a die lubricant, compressing the metal powder mixture in the lubricated die to form a green compact and sintering the green compact and having a sintered structure of sintered metal particles, wherein the sintered metal particles have a maximum particle size of 100 μm or smaller, the metal powder mixture consisting essentially of:

a metal powder that is a blend of an iron-based powder and an alloying metal powder screened to a particle size of 75 μm or smaller having a particle size of 75 μm or smaller,

a graphite powder in an amount of 0.1 to 0.3% by mass, and

a powder lubricant in an amount of 0.2 to 0.80 % by mass based on a total mass of the metal powder mixture, and the sintered metal particles having a maximum particle size of 100 μm or smaller.

10. (Original) A sintered body according to Claim 9, wherein the sintered body has been heat-treated.

11. (Original) A sintered body according to Claim 9, wherein the sintered body forms at least teeth of a sprocket of a silent chain.

12. (Original) A sintered body according to Claim 9, wherein the sintered body is a high-strength part of an internal combustion engine.

13. (Currently Amended) A production method of a sintered body, consisting essentially of comprising:

preparing a metal powder mixture, the metal powder mixture consisting essentially of a fine metal powder having a particle size of 75 μm or smaller, a graphite powder in an

amount of 0.1 to 0.3 % by mass and a powder lubricant in an amount of 0.2 to 0.80 % by mass based on a total mass of the metal powder mixture, the fine metal powder being a blend of an iron-based powder and an alloying metal powder, wherein the fine metal power is screened to a particle size of 75 μm or smaller;

applying a die lubricant to a die;

after said applying, compressing the metal powder mixture into the die to provide a green compact; and

sintering the green compact,

wherein the sintered body has a sintered structure of sintered metal particles of 100 μm or smaller in maximum particle size.

14. (Cancelled)

15. (Previously Presented) A production method according to Claim 13, wherein the sintered body contains carbon in an amount of 0.05 to 0.3% by mass based on a total mass of the sintered body.

16. (Cancelled)

17. (Original) A production method according to Claim 13, wherein said preparing includes granulating the metal powder to form primary particles having a particles size of 75 μm or smaller into secondary particles having a particle size of 180 μm or smaller.

18. (Original) A production method according to Claim 13, wherein the metal powder mixture is compacted while being heated to a temperature of 100 °C or higher.

19. (Original) A production method according to Claim 18, wherein said compacting includes preheating a die to a temperature of 120 °C or higher, and then, compressing the metal powder mixture into the preheated die.

20. (Cancelled)

21. (Original) A production method according to Claim 13, wherein the green compact is sintered at a temperature of 1180 °C or higher.

22. (Original) A production method according to Claim 13, further comprising heat-treating the sintered compact.
23. (Previously Presented) A sintered body according to Claim 9, wherein the sintered body contains carbon dispersed in the sintered structure in an amount of 0.05 to 0.3% by mass based on a total mass of the sintered body.
24. (Previously Presented) A sintered body produced by a method according to Claim 13, wherein the sintered body forms at least teeth of a sprocket of a silent chain.
25. (Previously Presented) A sintered body produced by a method according to Claim 13, wherein the sintered body is a high-strength part of an internal combustion engine.